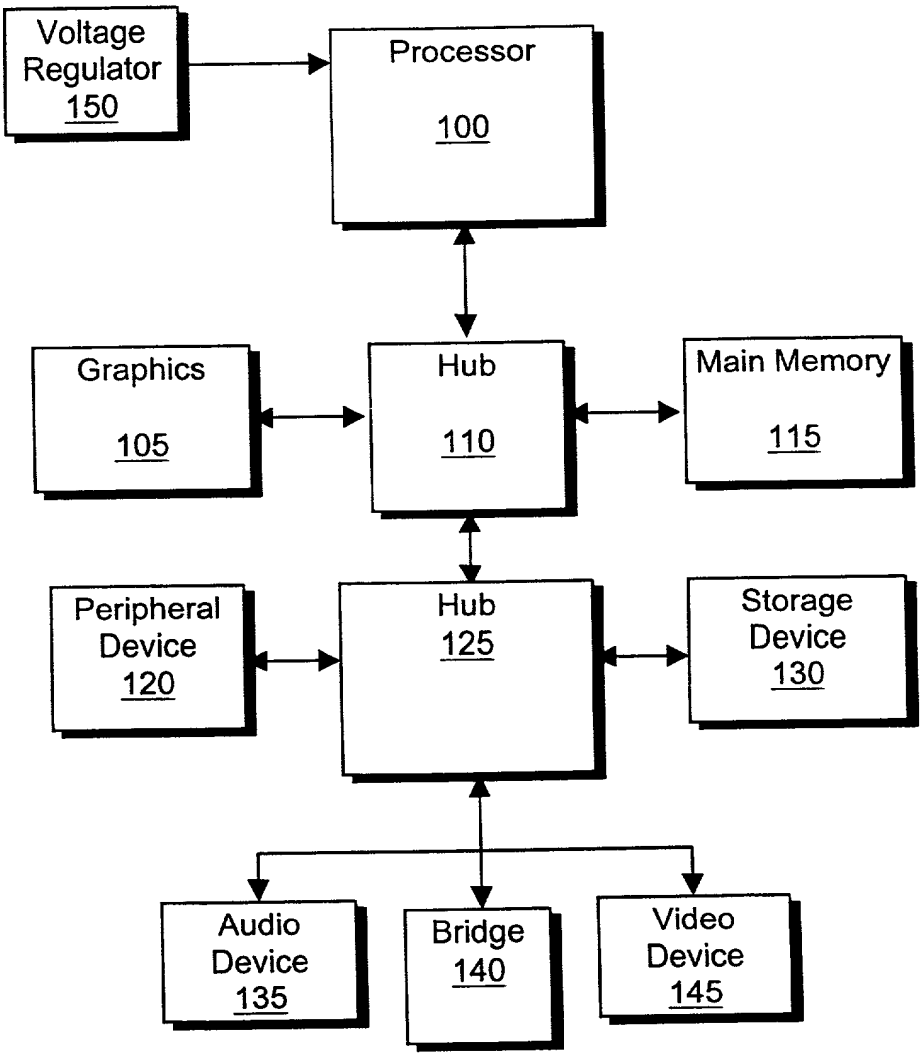
Voltage Regulator 150
Processor 100
Graphics 105
Hub 110
Main Memory 115
Peripheral Device 120
Hub 125
Storage Device 130
Audio Device 135
Bridge 140
Video Device 145

Figure 1

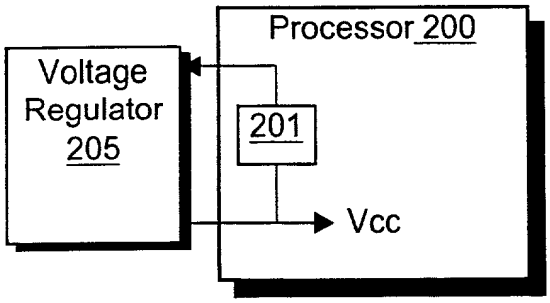

Figure 2A

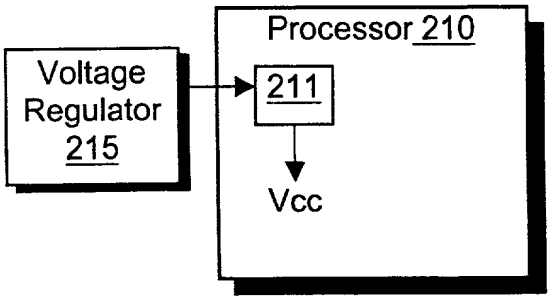

Figure 2B

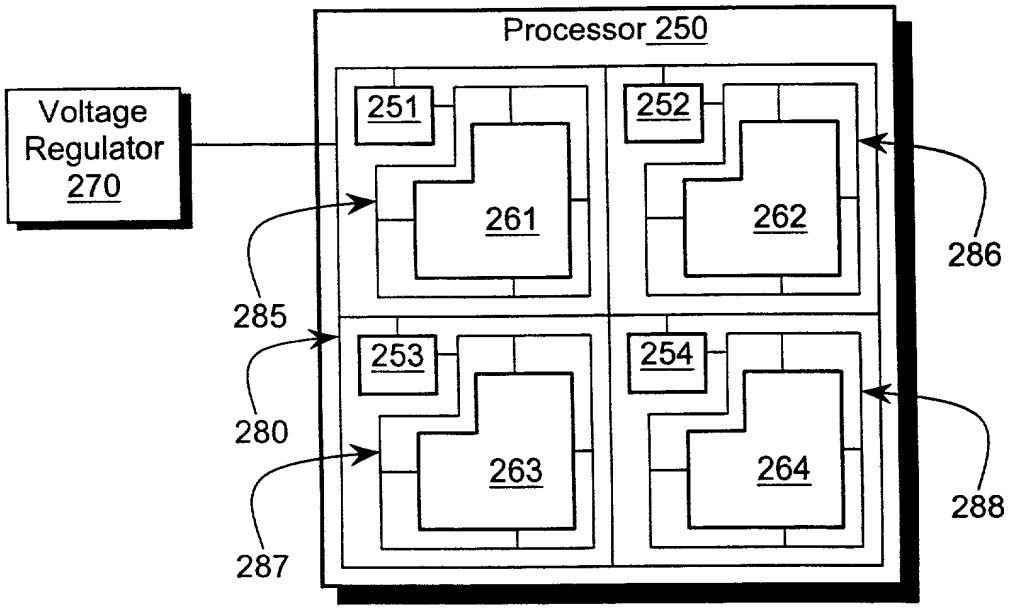

Figure 2C

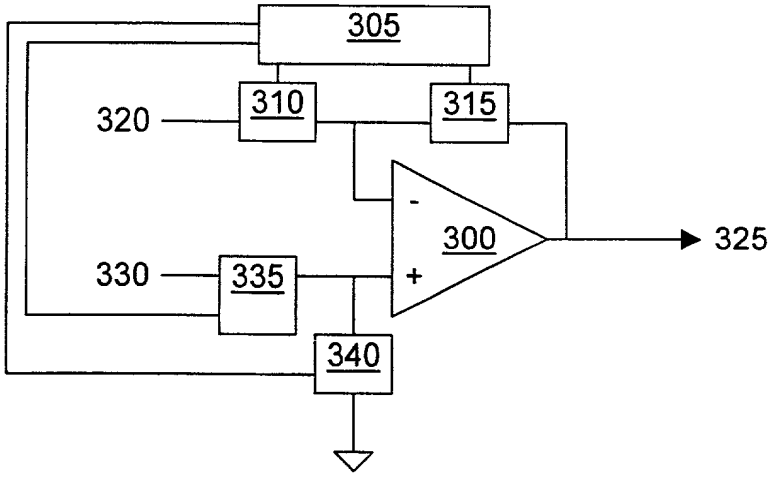

Figure 3A

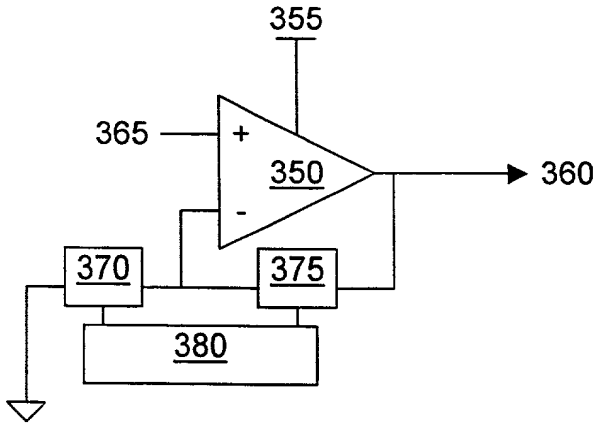

Figure 3B

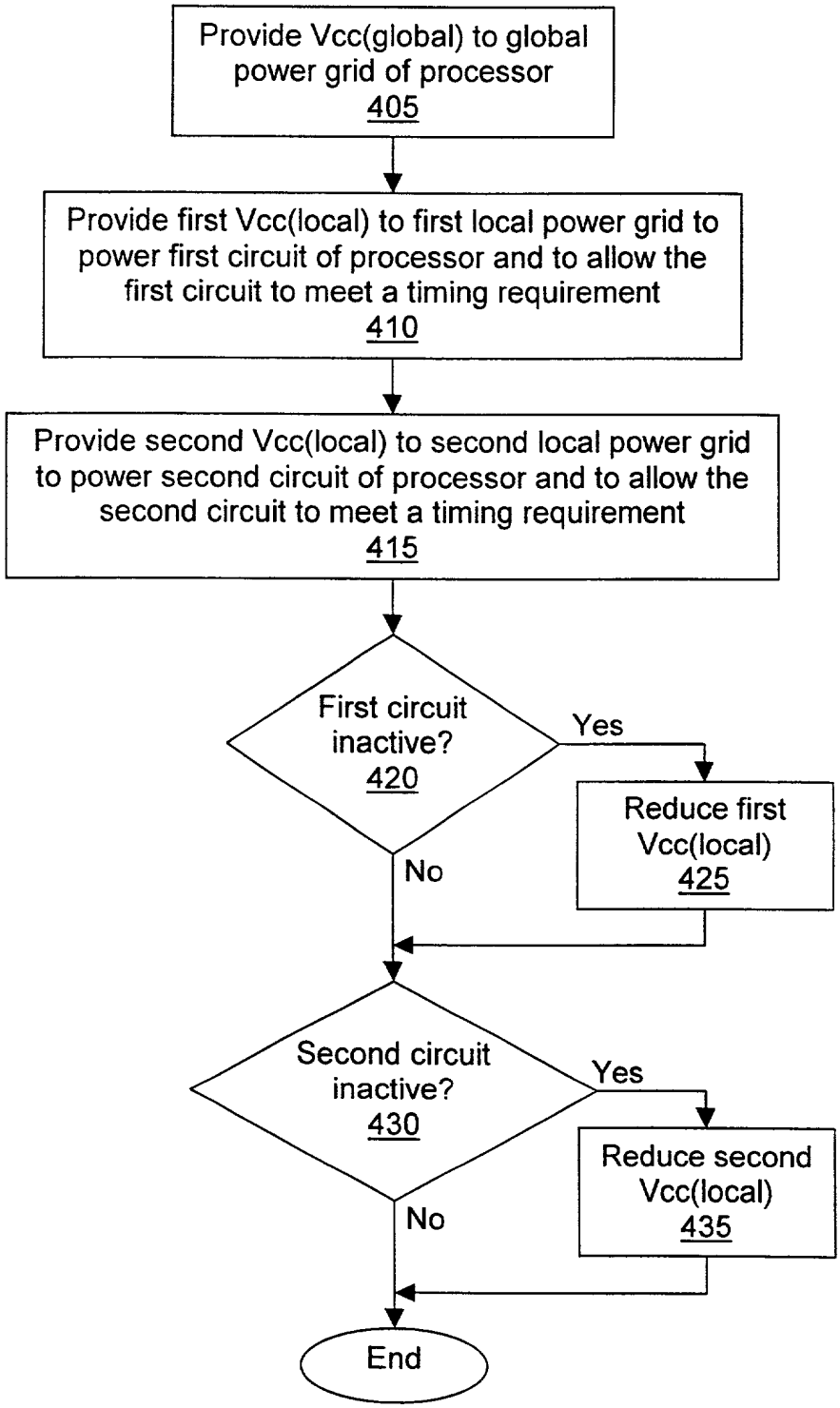
Provide Vcc(global) to global power grid of processor
405
Provide first Vcc(local) to first local power grid to power first circuit of processor and to allow the first circuit to meet a timing requirement
410
Provide second Vcc(local) to second local power grid to power second circuit of processor and to allow the second circuit to meet a timing requirement
415
First circuit inactive?
420
Yes
Reduce first Vcc(local)
425
No
Second circuit inactive?
430
Yes
Reduce second Vcc(local)
435
No
End

Figure 4